

FIG. 1

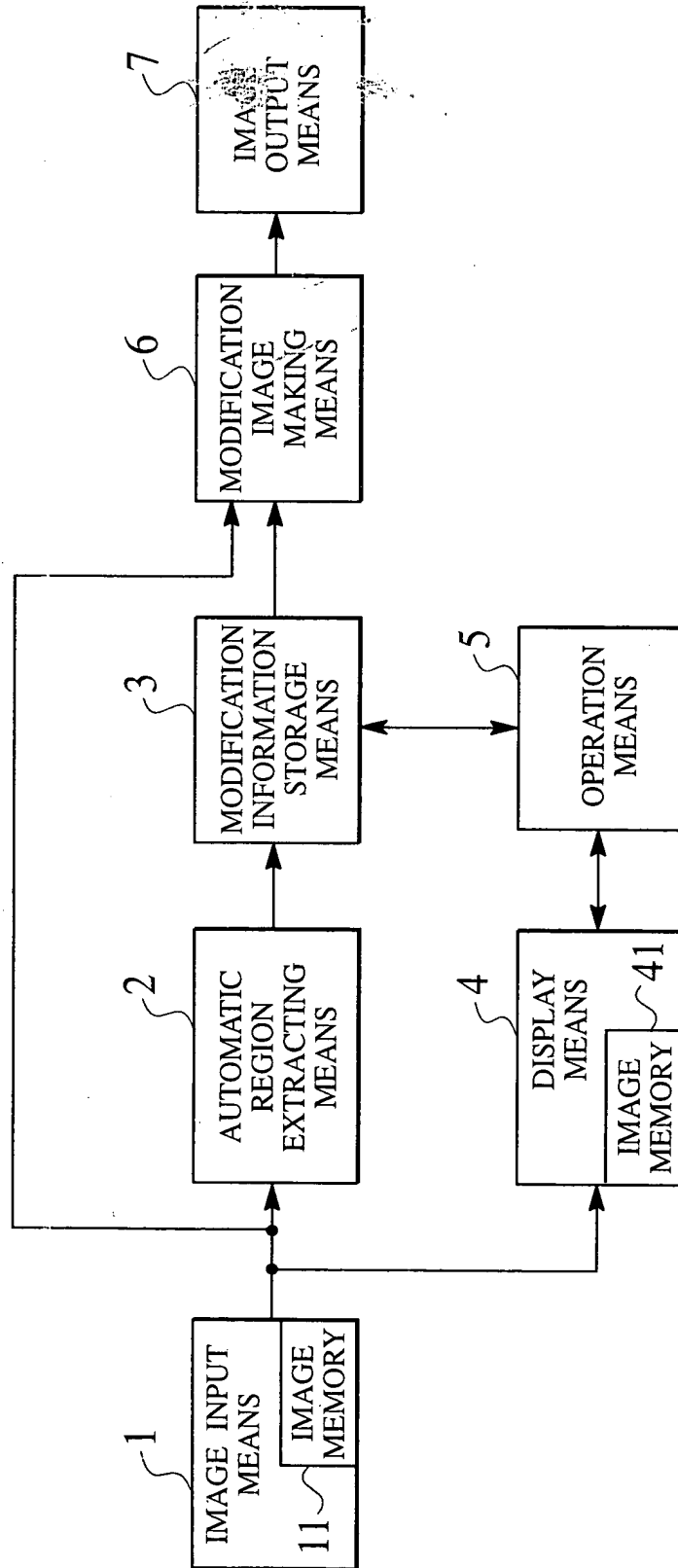


FIG. 2

AUTOMATIC REGION EXTRACTING MEANS 2

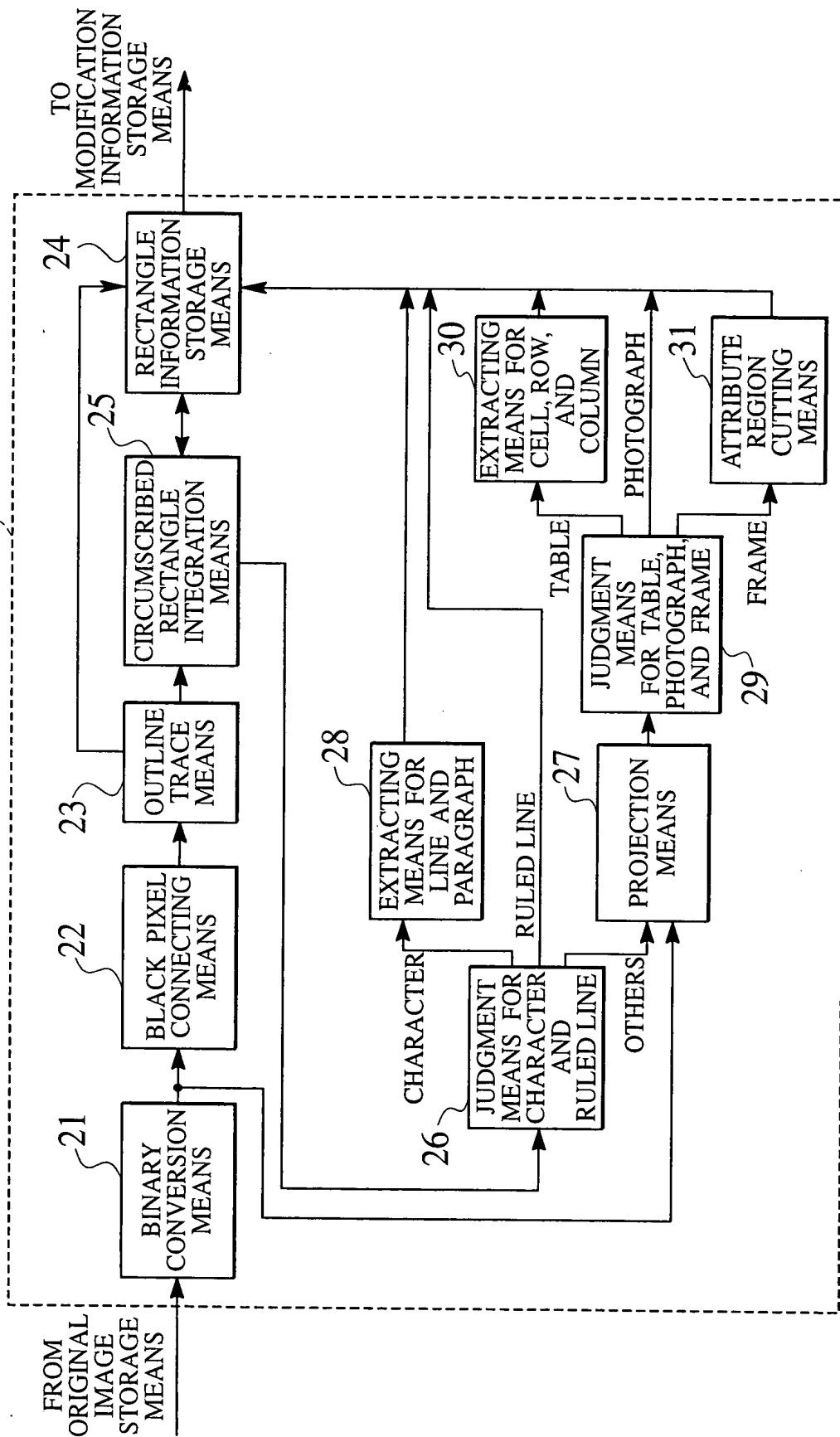


FIG. 3

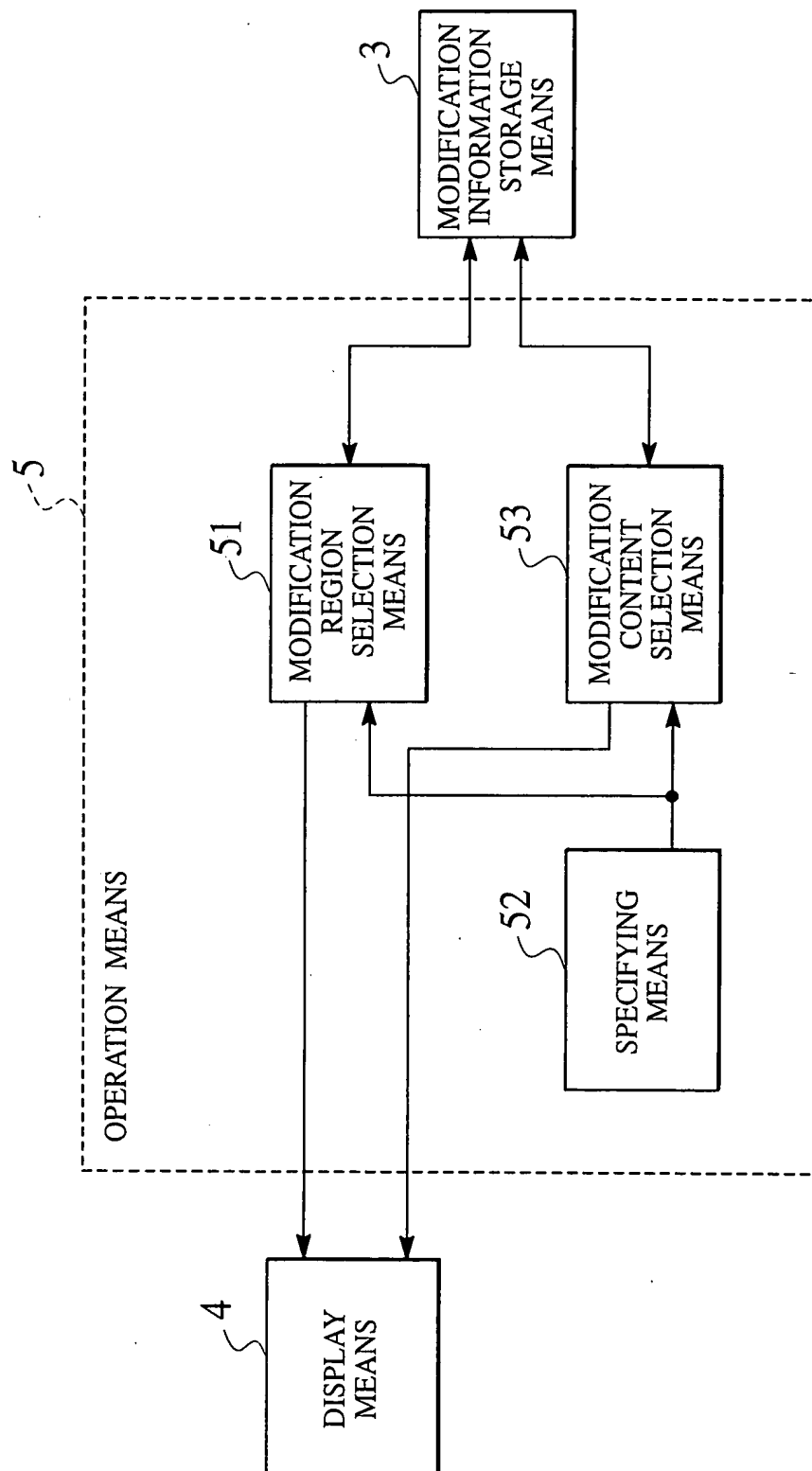


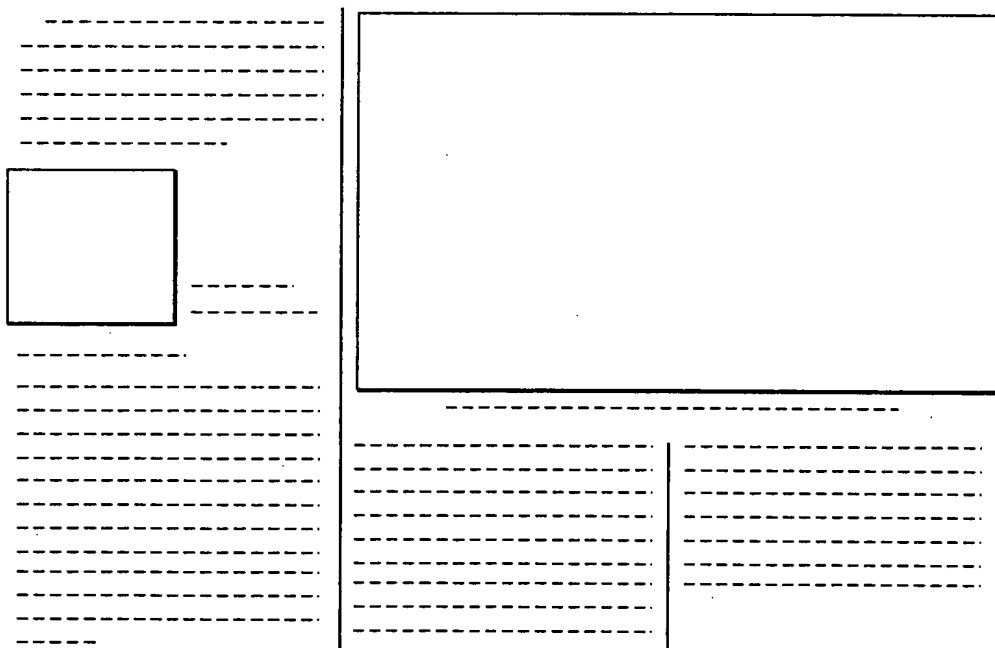
FIG. 4

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創刊準備号

5.30大運動会 Aチーム優勝！！

§ ソフトボール第二試合で強豪Cチームに打ち勝つ §



	Aチーム	Bチーム	Cチーム
ソフト1	----	----	----
ソフト2	----	----	----
キック1	----	----	----
キック2	----	----	----
----	----	----	----

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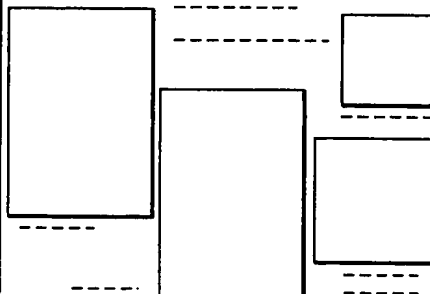


FIG. 5

ORIGINAL IMAGE

スケッチ(手がき製版)する
左の写真は手がき製版しているところ
です。マスタブックを開くと、RGのマスタ
のような原紙が、台紙に軽く固定されて
います。これを外し、原紙と台紙の間にヤ

MAGNIFIED VIEW

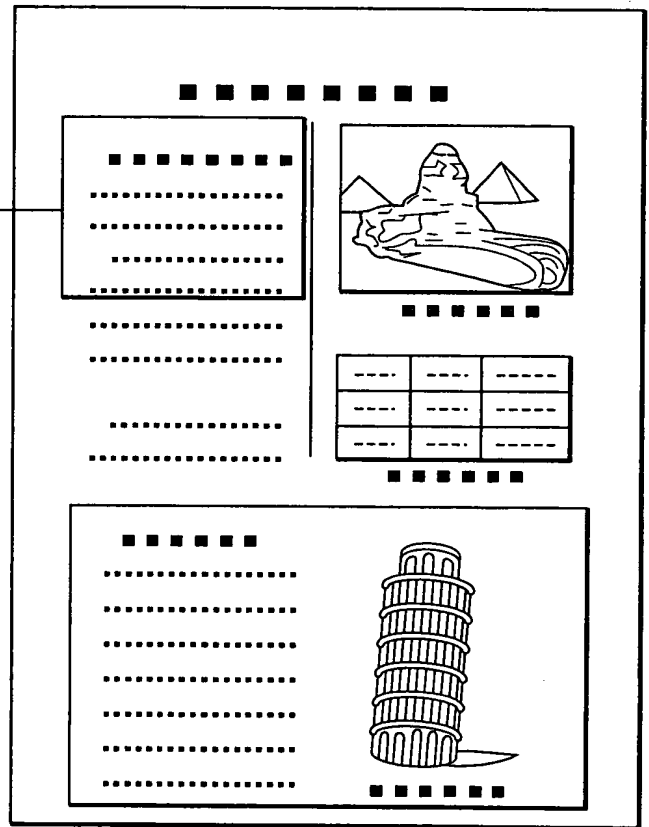


FIG. 6

BINARIZATION AND CONTINUOUS WHITE PIXELS DETECTION PROCESS

スケッチ(手がき製版)する
左の写真は手がき製版しているところ
です。マスタブックを開くと、RGのマスタ
のような原紙が、台紙に軽く固定されて
います。これを外し、原紙と台紙の間にヤ

MAGNIFIED VIEW

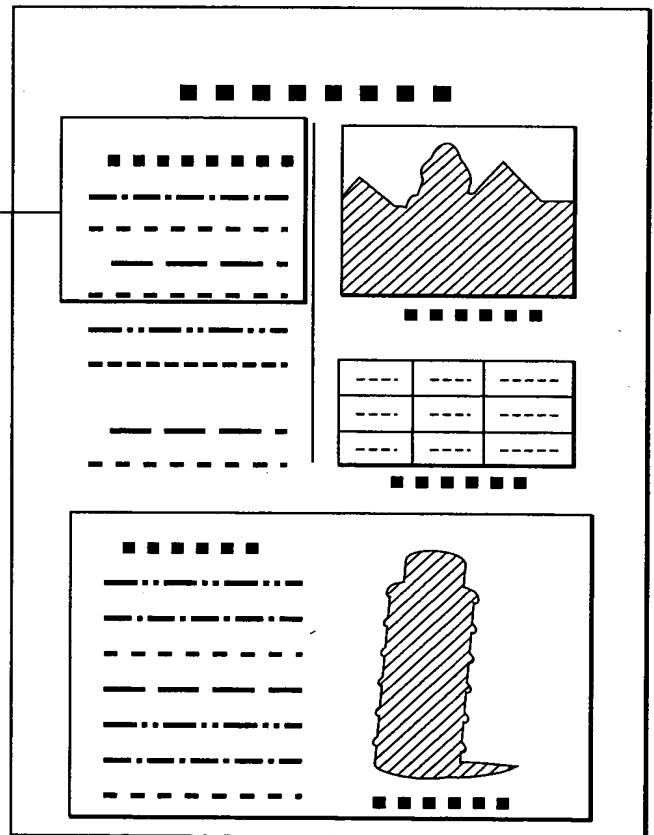


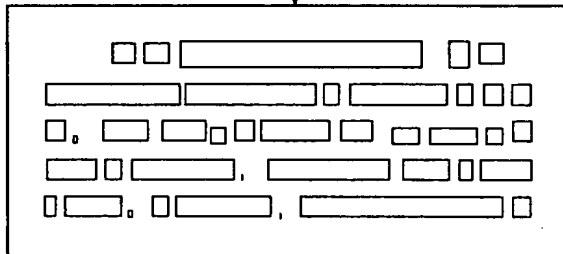
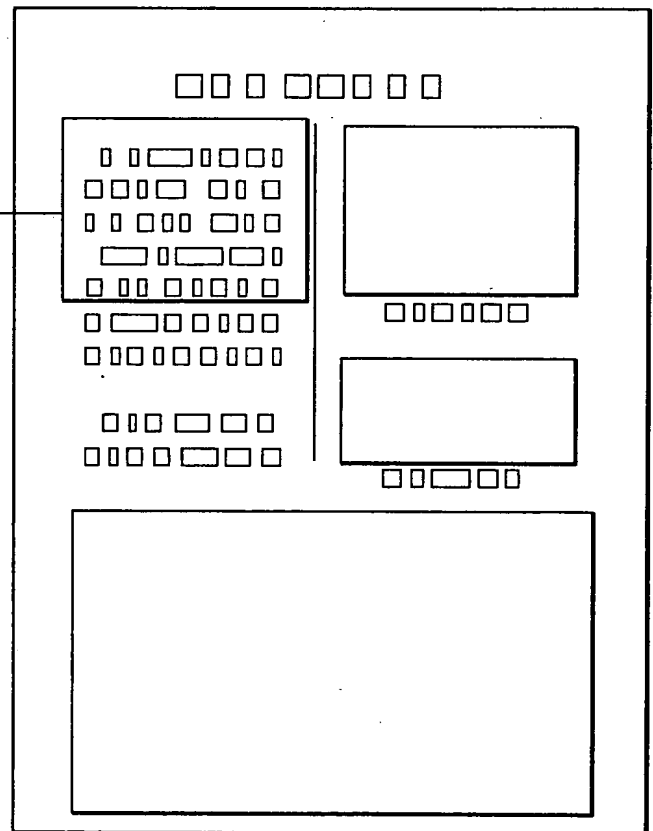
FIG. 7

OUTLINE DETECTION
PROCESS

MAGNIFIED VIEW

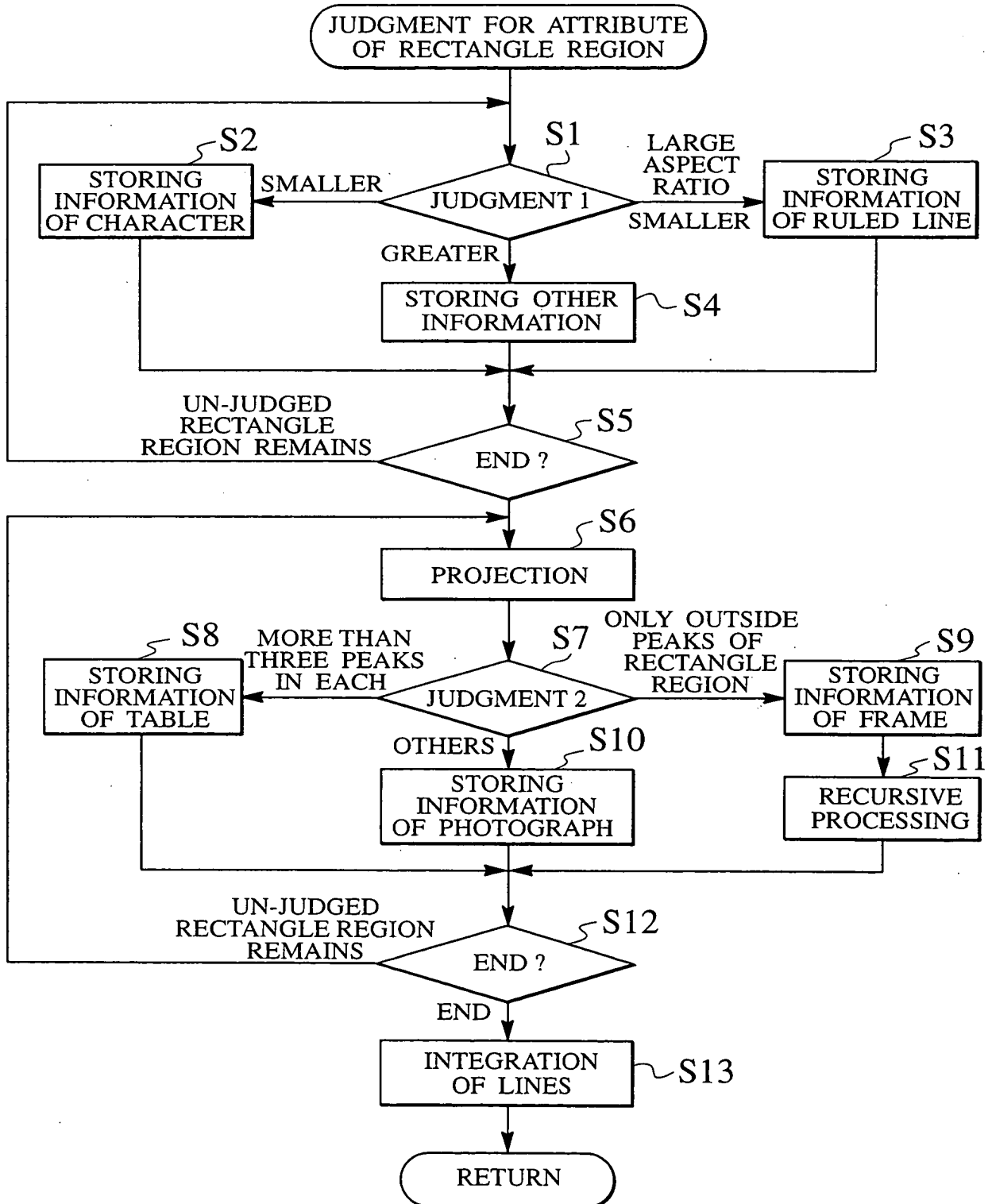
スケッチ(手が~~な~~見)する
左の写~~影~~がき~~き~~しているところ
で。マスタ~~バック~~を~~一~~と、~~右~~のマスタ
のよう~~な~~、~~一~~で~~開~~く~~一~~されて
は~~実~~す。これ~~一~~、~~一~~と~~台~~ヤ

OUTLINE

CIRCUMSCRIBED
RECTANGLE

8/24

FIG. 8



9/24

FIG. 9

CONDITION	ATTRIBUTE
$H_s < T_k$ AND $W_s/H_s > T_r$ OR $W_s < T_k$ AND $H_s/W_s > T_r$	RULED LINE
WHEN DOES NOT SATISFY CONDITION OF RULED LINE AND $T_k \leq H_s < T_c$	CHARACTER
WHEN DOES NOT SATISFY ABOVE BOTH CONDITIONS	OTHERS

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10/24

FIG. 10A

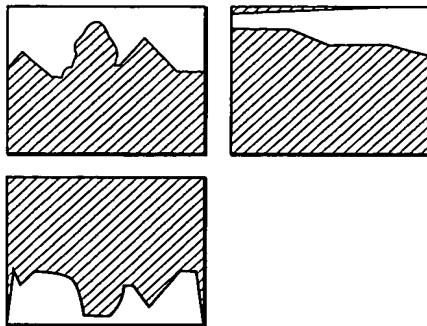


FIG. 10B

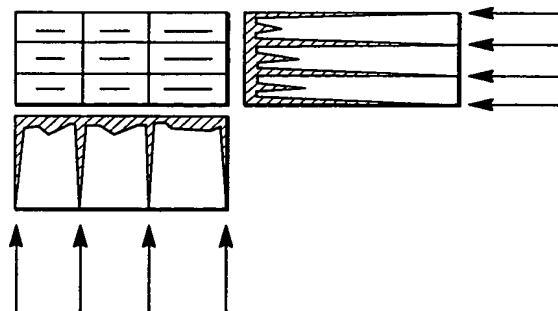
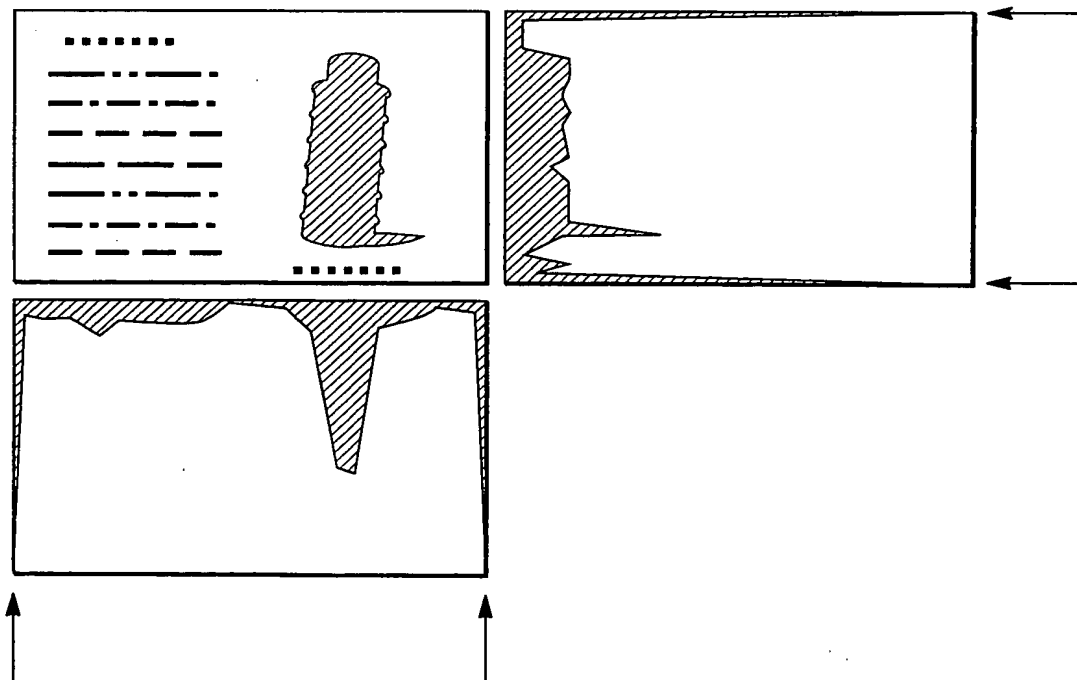


FIG. 10C



11/24

FIG. 11

CONDITION	ATTRIBUTE
IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS THREE PEAKS	TABLE
IN BOTH VERTICAL AND HORIZONTAL DIRECTIONS TWO PEAKS	FRAME
DOES NOT SATISFY ABOVE BOTH CONDITIONS	PHOTOGRAPH

12/24

FIG. 12

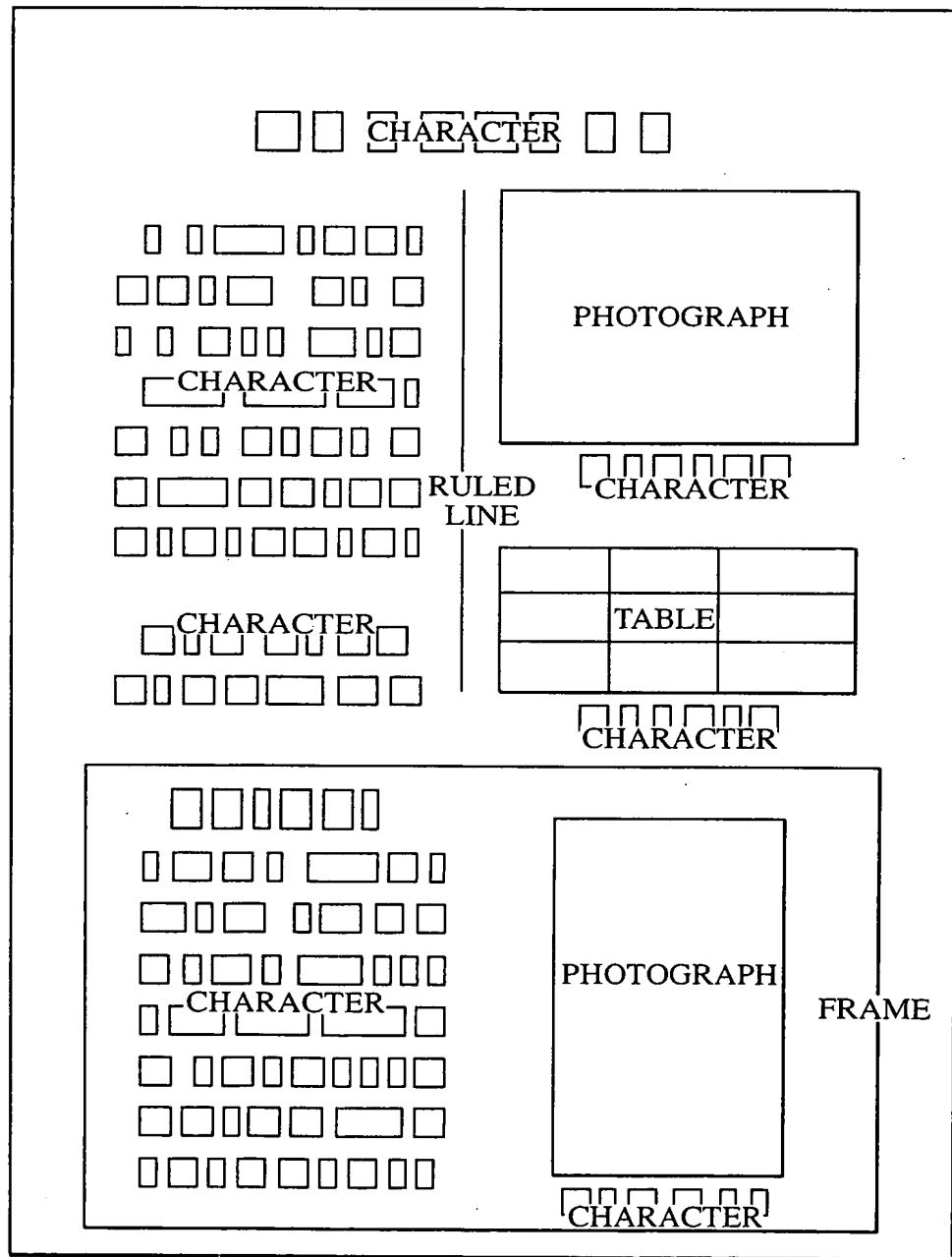


FIG. 13A

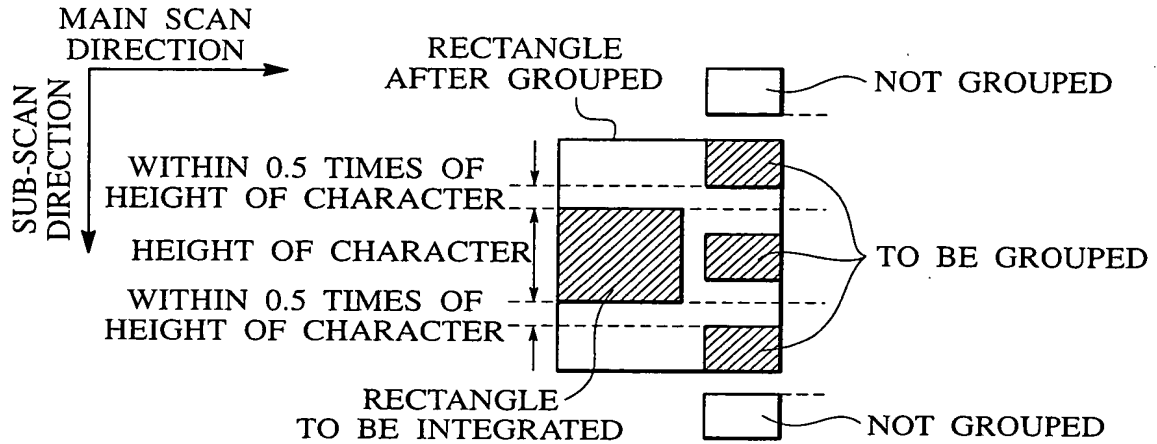


FIG. 13B

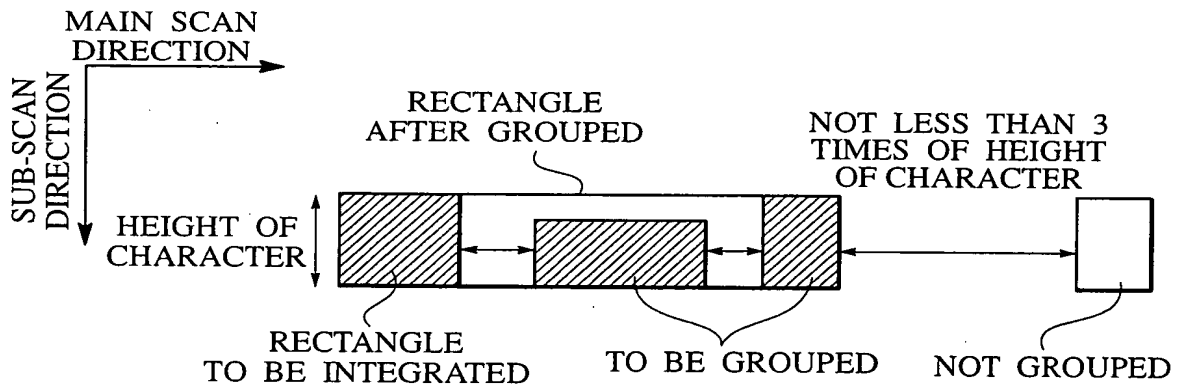


FIG. 13C

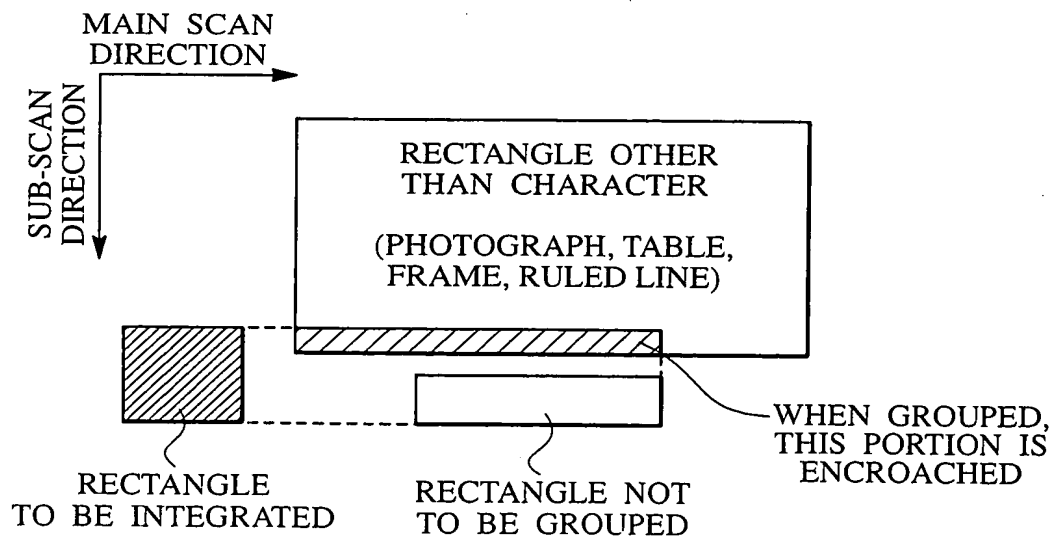
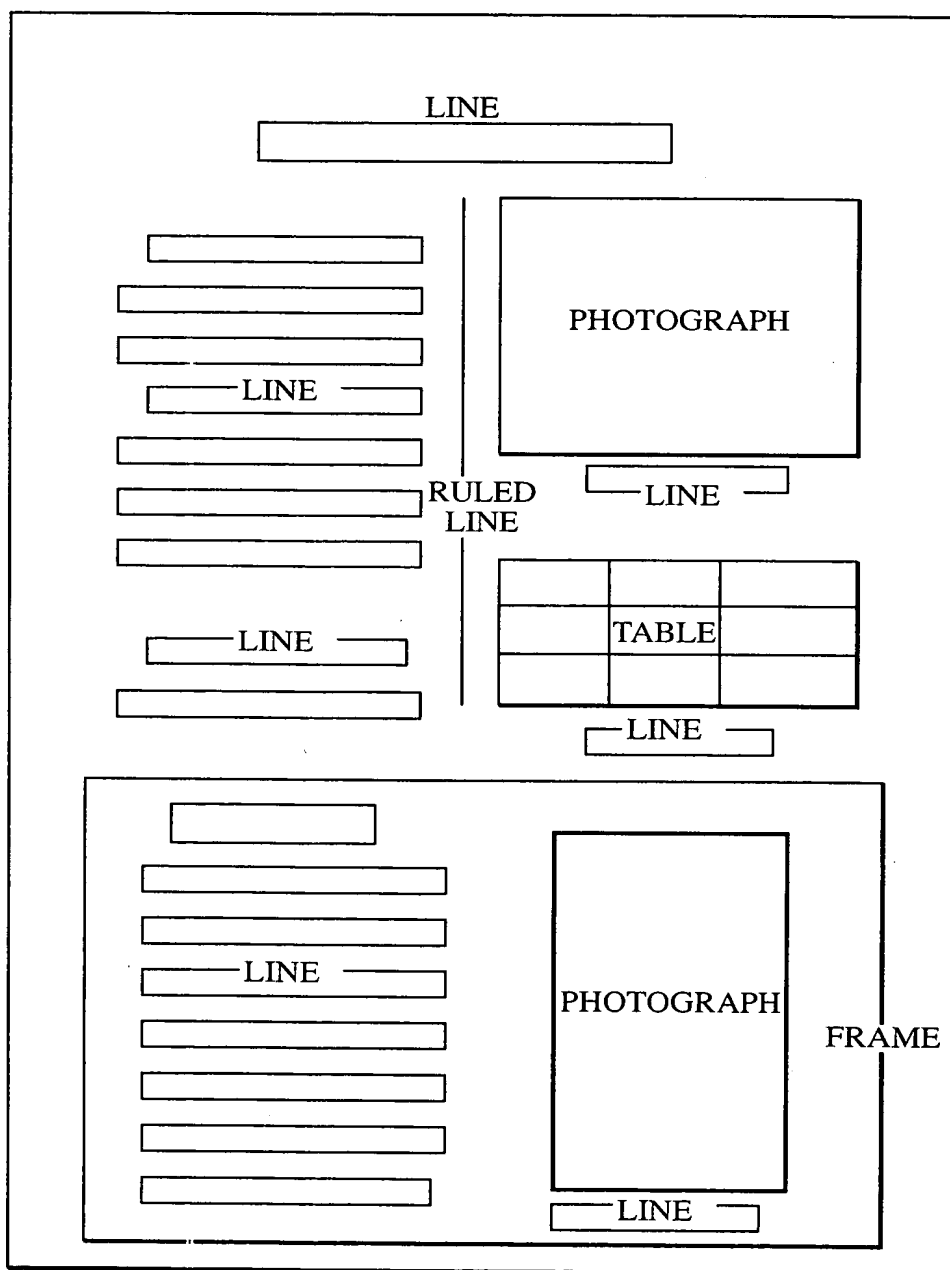


FIG. 14



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FIG. 15A

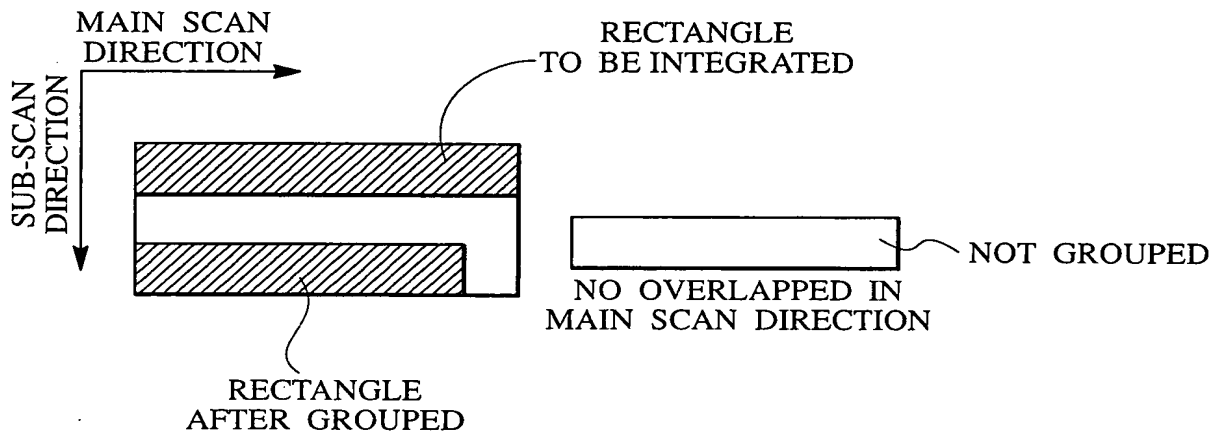


FIG. 15B

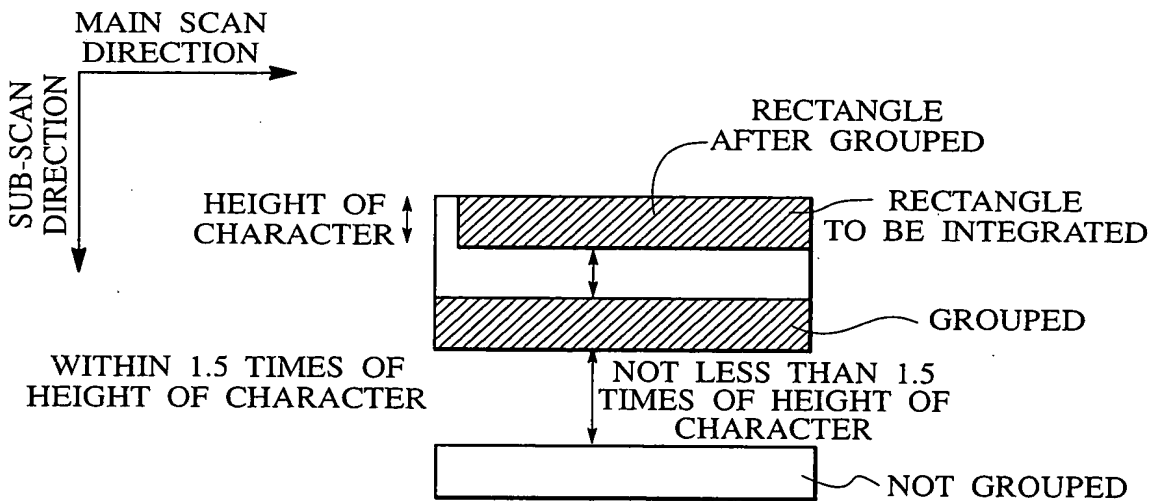


FIG. 16A

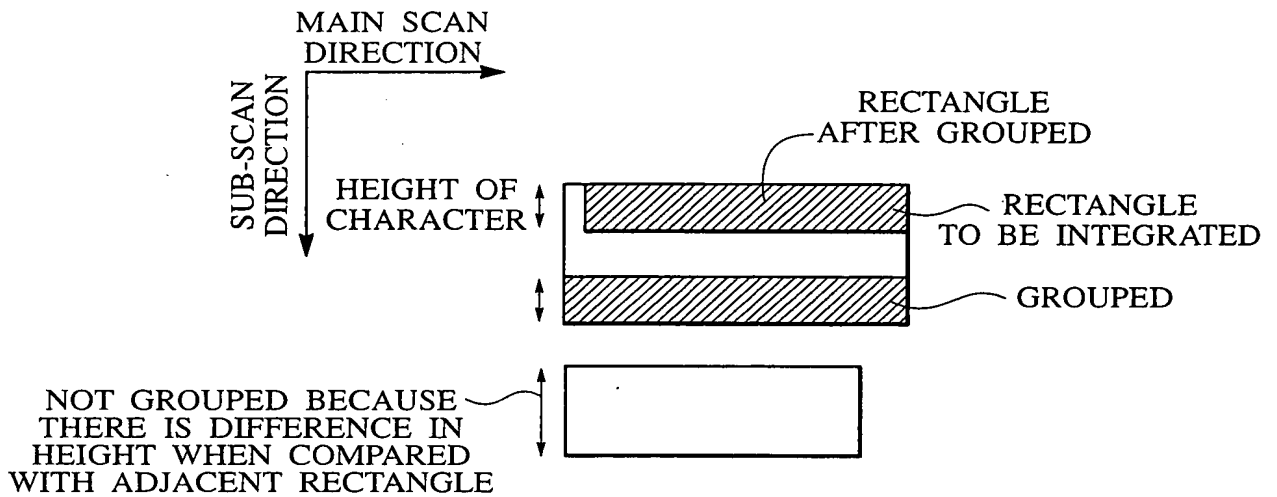


FIG. 16B

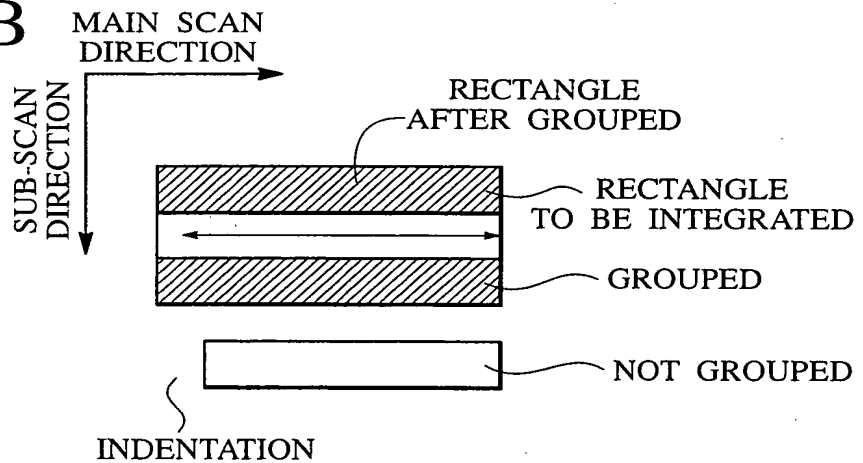
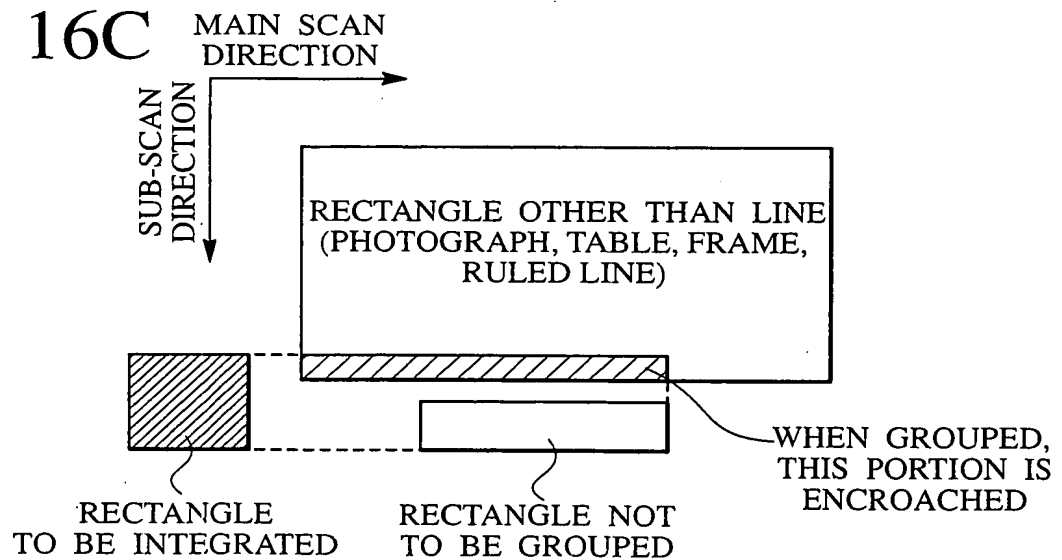


FIG. 16C

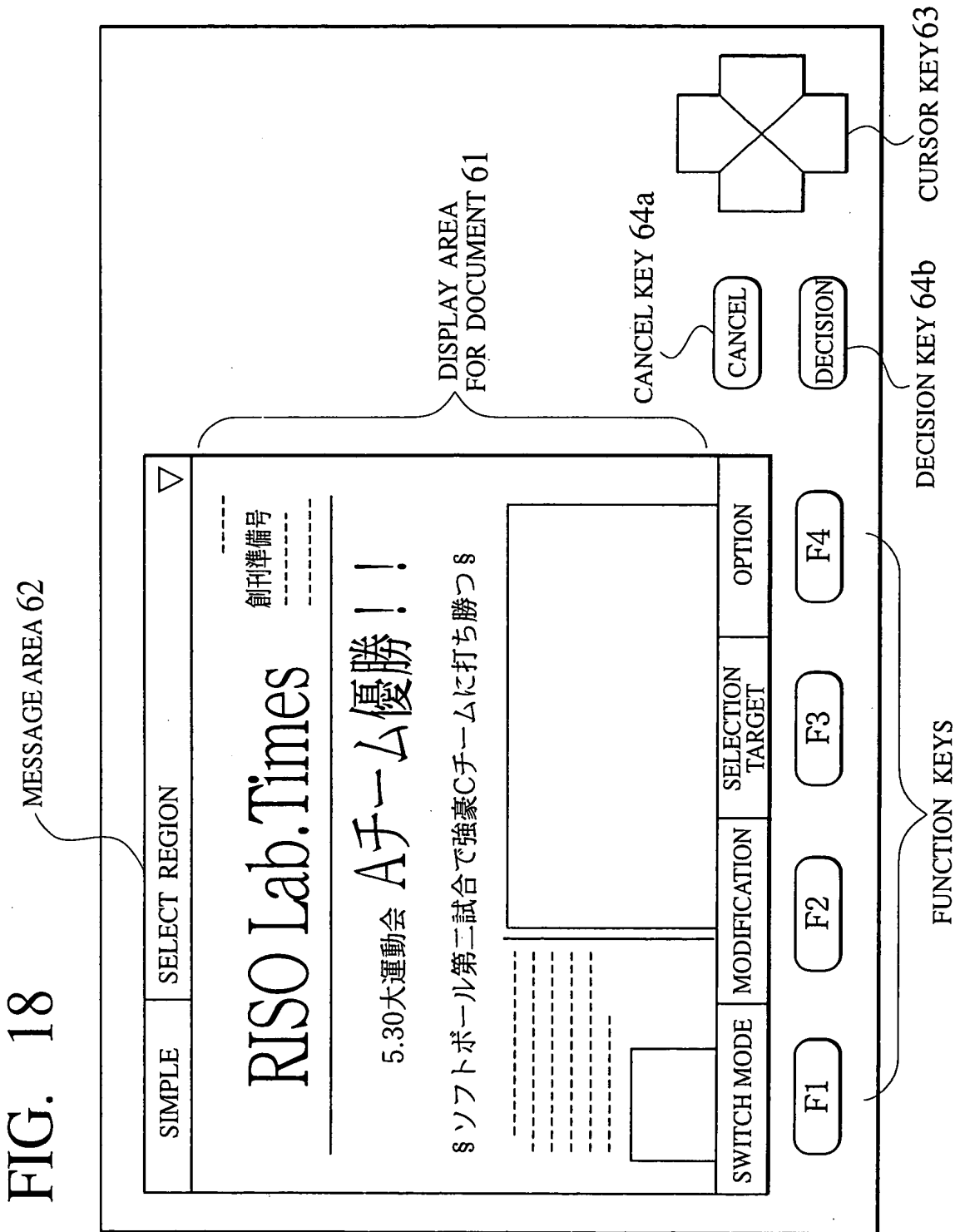


The diagram illustrates the identification of graphical elements and their bounding boxes. The elements shown are:

- CHARACTER**: Multiple instances of the word "CHARACTER" in various box styles and sizes.
- PHOTOGRAPH**: Areas filled with a cross-hatch pattern, labeled as "PHOTOGRAPH".
- TABLE**: A grid structure with diagonal lines, labeled as "TABLE".
- RULED LINE**: Horizontal lines, some labeled as "RULED LINE".

The diagram shows how these elements are grouped and identified by the system, with labels like "CHARACTER" and "PHOTOGRAPH" appearing within or near the corresponding graphical elements.

RESULT OF REGION CUTTING



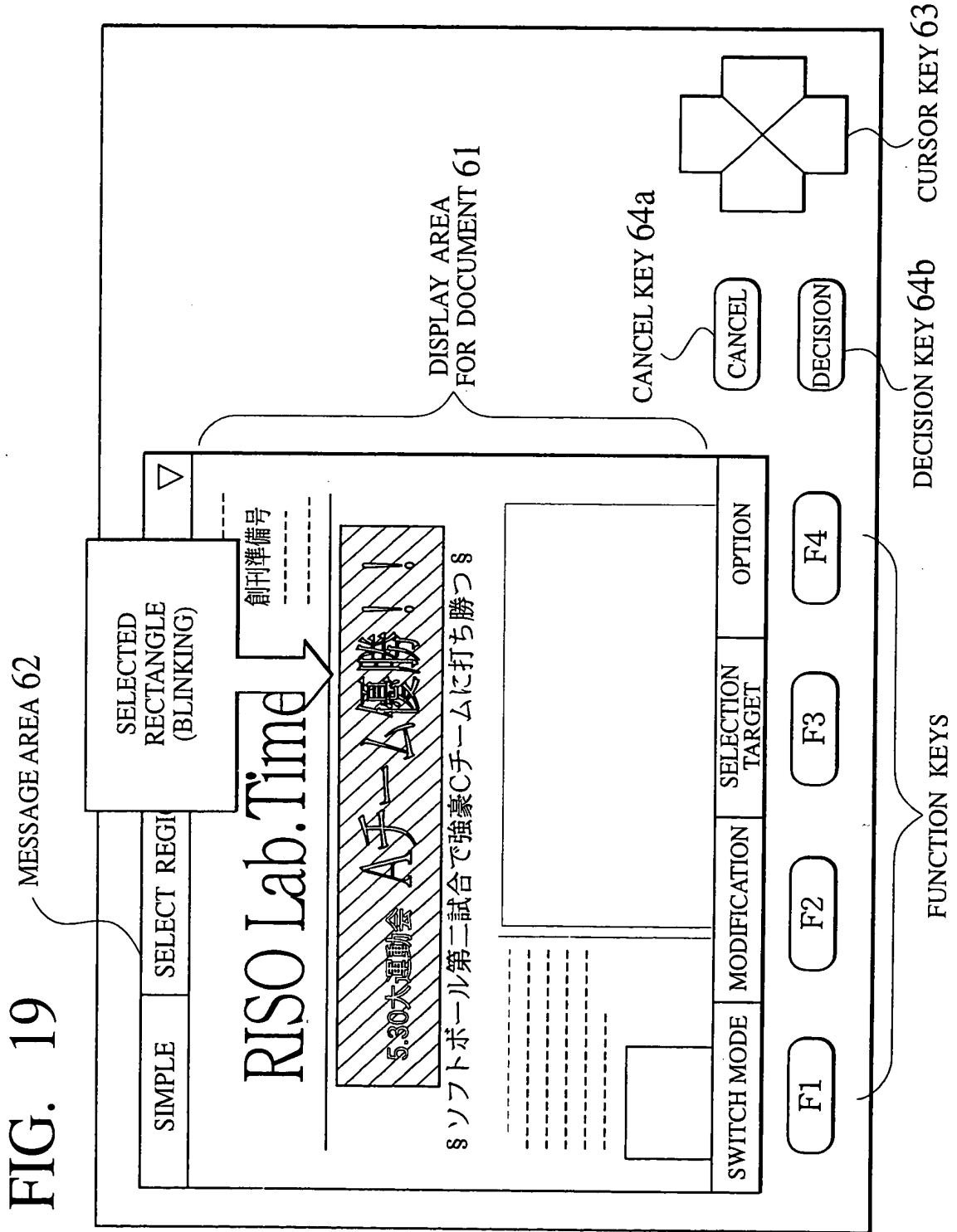


FIG. 20

MESSAGE AREA 62

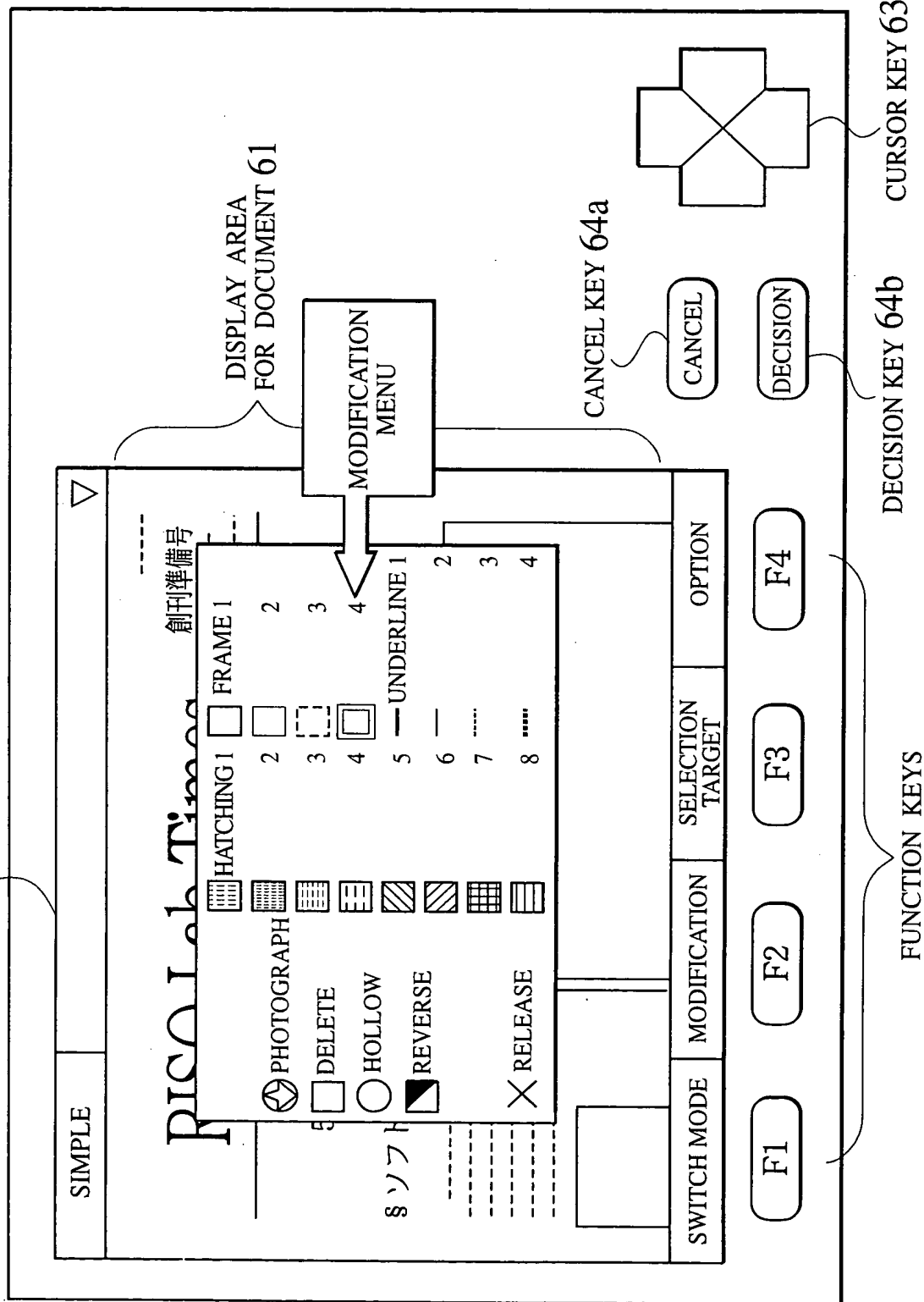


FIG. 21

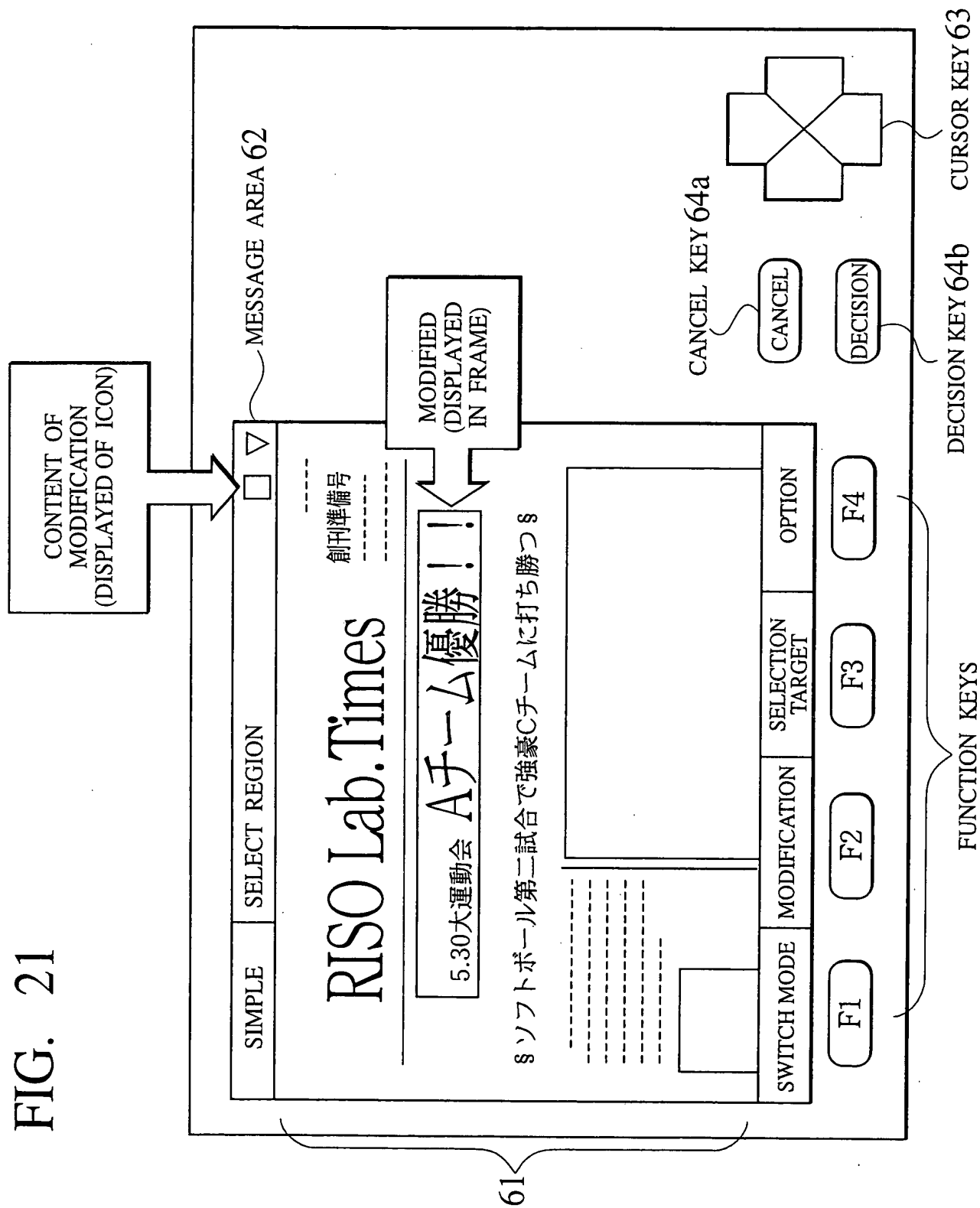


FIG. 22

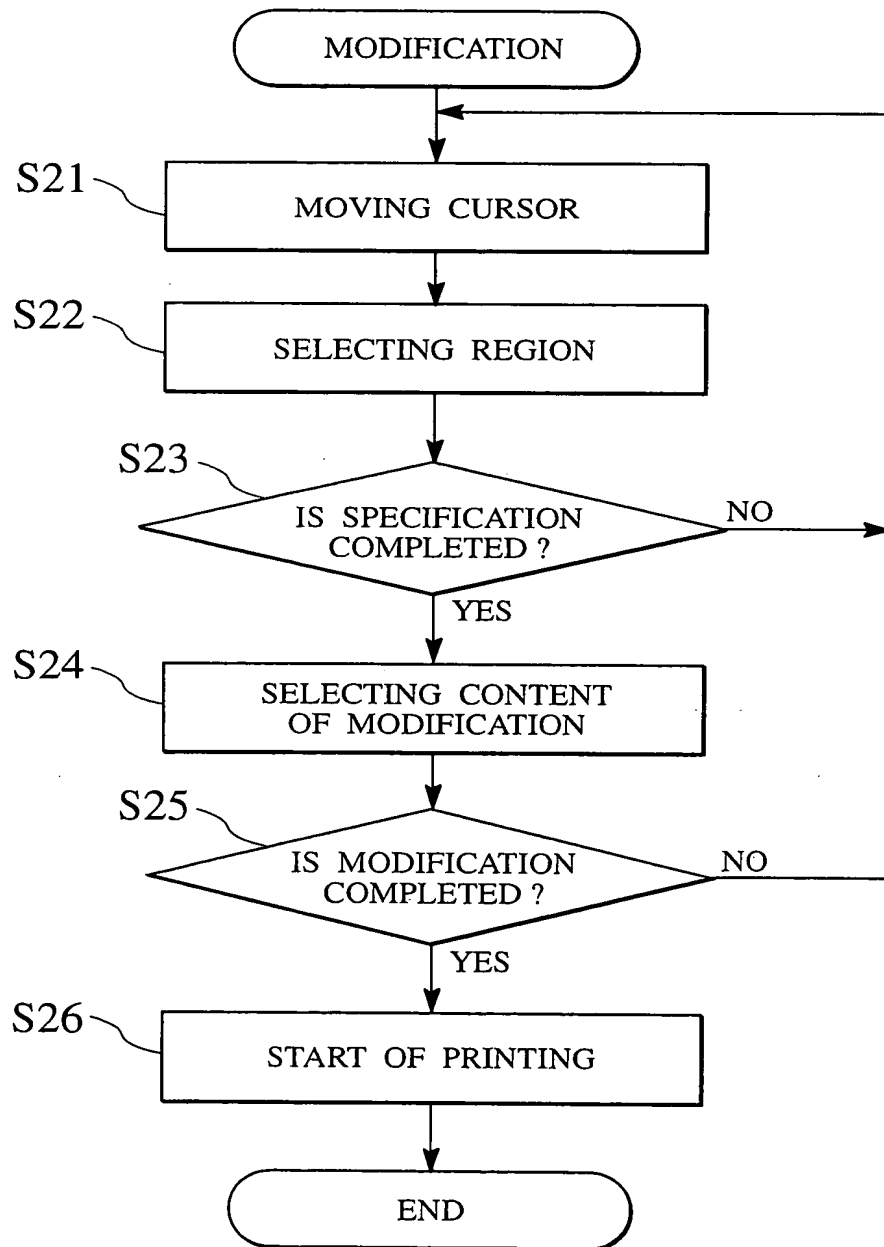


FIG. 23

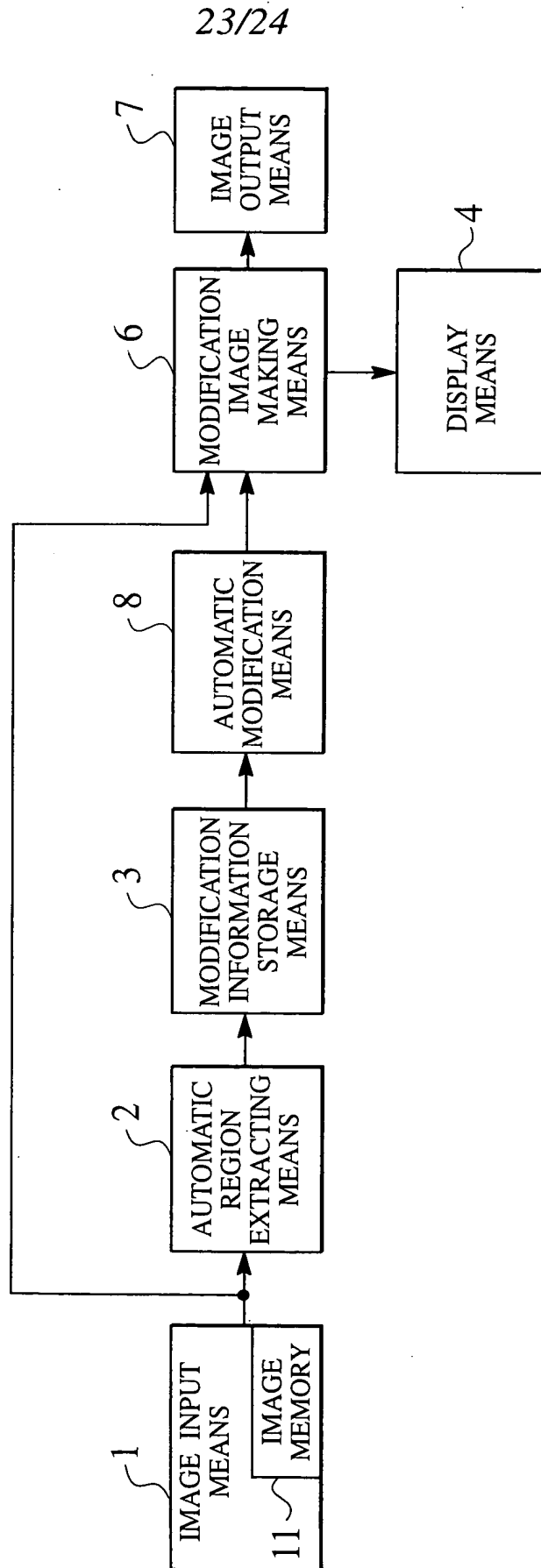


FIG. 24

POSITION OF RECTANGLE REGION	ATTRIBUTE	CONTENT OF MODIFICATION
TOPMOST LINE	HEADER	REVERSE
	ITEMS OF TABLE	SHADE